CELERY CULTIVAR TRIALS - 1975

MUCK CROPS BRANCH

CELERYVILLE, OHIO

E. K. ALBAN

EDWARD POSTEMA

Department of Horticulture

OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

Wooster, Ohio

Horticultural Series No. 427

December 30, 1975

This page intentionally blank.

CELERY CULTIVAR TRIALS - 1975

Muck Crops Branch
Celeryville, Ohio

E. K. Alban[1] and Edward Postema[2]

Twenty cultivars or promising breeding lines of celery were compared in replicated trials (four) at the Muck Crops Branch Station in the 1975 season. Cultural information and tabular data summary are included in the following.

Cultural Information:

Seed was sown in flats in the greenhouse, April 2, 1975; seedlings were transplanted to greenhouse benches April 21 and 22, 1975; and the celery was transplanted (mechanically) into the field on May 14, 1975.

Nine hundred pounds of an 0-25-25 fertilizer were applied and disced in prior to planting. Side dressing of ammonium nitrate (100 lb/A) was made twice during the two and four weeks after planting.

Randomized replicated plots consisted of paired rows spaced 34 inches, with 40 inches between the paired rows for equipment clearance. Plants were spaced 6.5 inches in the row, with 41 plants per 23-foot plot, and replicated four times for each cultivar.

Dyrene was applied at 7 to 10 day intervals for disease control. Malathion for insect control was added to the Dyrene spray at approximately 14 to 20 day intervals.

Rainfall was adequate in the early season, somewhat deficient in the middle of the season, and adequate in the late season. Water was never a limiting factor since overhead irrigation was available and used as necessary throughout the season.

Harvesting and recording of data was accomplished during the period August 7-12, 1975. Total yield, stalk size, trim loss, length and number of petioles are included in Table 1.

Seed Sources:

The following include abbreviations used in Table 1, as well as the seed companies involved. We would like to acknowledge that each seed company donated the seed for these celery cultivar studies.

A1 Abbot 7 Cobb

FC2 Food Machinery Corp.

F3 Ferry Morse Co.

K4 Keystone Seed Co.

---

1. Professor of Horticulture, The Ohio Agricultural Research and Development Center and The Ohio State University.

2. Manager, Muck Crops Branch, The Ohio Agricultural Research and Development Center.

This page intentionally blank.

TABLE 1. - Celery Varieties - 1975

Rank	Variety & Source	Ave. Wt, Per Large Stalk lb	Ave. Yield Per Plot: Large Stalks lb	Small Stalks lb	Marketables lb	Marketables %	Petiole Count 4" Above Butt No.	Petiole Length Butt to 1st Node In.	Petiole Overall Length In.	Trim Loss %
1.	Florida 683 F3	2.4	81.0	0.0	81.0	82	8.9	8.4	27.8	36
2.	Calmario FC2	2.3	76.8	0.0	76.8	82	8.8	8.6	27.9	35
3.	Tall Utah 52-70 F3	2.4	76.3	0.0	76.3	76	7.6	8.6	27.9	37
4.	Florida 2-15 K4	2.7	74.9	0.2	75.1	68	7.6	8.8	29.5	34
5.	Florida 683 K4	2.4	75.0	0.0	75.0	76	9.5	7.8	27.7	31
6.	Florida 683 Imp K4	2.3	72.7	0.0	72.7	78	9.4	8.1	27.4	33
7.	52-70 R Imp F3	2.1	71.9	0.0	71.9	82	8.8	8.7	28.2	36
8.	3036 F3	2.3	71.4	0.0	71.4	75	8.2	8.4	27.5	42
9.	3037 F3	2.1	69.9	0.1	70.0	80	7.8	8.7	26.8	41
10.	8191 F3	2.0	68.5	0.0	68.5	83	8.9	8.6	27.9	37
11.	Surepak F3	2.1	67.7	0.1	67.8	77	8.3	10.6	29.5	42
12.	Imp 52-70 A1	2.3	65.7	0.3	66.0	69	7.9	9.0	29.6	38
13.	Earlibelle K4	2.1	64.8	0.8	65.6	77	8.5	8.0	26.4	43
14.	Florida 2-14 K4	2.6	64.0	0.8	64.8	60	8.9	8.6	27.9	40
15.	Processor 34 K4	1.9	64.0	0.2	64.2	82	8.2	9.7	28.4	45
16.	Beacon K4	2.0	63.3	0.0	63.3	78	7.4	8.1	26.5	35
17.	Tall Utah 52-70 K4	2.2	60.3	0.4	60.7	66	9.3	8.3	29.1	39
18.	June Belle K4	2.1	59.4	0.4	59.8	69	7.8	8.6	27.6	46
19.	FFPE Sel. #2 K4	1.7	57.8	1.0	58.8	81	6.7	7.7	24.4	36
20.	Pascal 259-19 K4	1.4	44.5	1.4	45.9	76	6.4	7.6	24.4	51

This page intentionally blank.